

### **ABSTRACT**

A cooling system for a basic oxygen furnace or an Argon Oxygen Decarburization converter having a metallurgical converter vessel supported in a trunnion ring. The cooling system comprises a number of cooling panels. The cooling panels are mounted or attached to the exterior surface of the trunnion ring and positioned between the outside surface of the vessel and the trunnion ring. A coolant liquid or vapour is pumped or circulated through the cooling panels. The cooling panels are detachable from the trunnion ring for replacement and/or repair without requiring disassembly of the trunnion ring or the metallurgical converter vessel.